Numbers (data on ratio or interval scale)



USING POSITION FOR ENCODING NUMBERS		
MOST PRECISE		LEAST PRECISE
Position along common explicit scale	Position along common implicit scale	Position along non-aligned, but linked scales
10		¹⁰ 5 10 10

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Position is in itself a very precise way of encoding information, but its usefulness in encoding numbers can be further enhanced by adding a scale. Data points can be compared even across several charts with relative ease when the charts have linked scales, meaning that similar distance in position corresponds to the same difference in value on both. (See Data visualization handbook, pp. 83–85.)

Scales are not helpful in encoding order or categories.

Order (data on ordinal scale)

MOST PRECISE

POSITION

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LEAST PRECISE

encoding order

Not suitable for encoding order

SHAPE



